

## VARIABLE NOZZLE FOR A GAS TURBINE

Abstract

Variable nozzle (10) for a gas turbine fixed to a shaft  
10 (11) equipped with a pressurized upper surface (12) and a  
depressurized lower surface (14) opposite to the upper  
surface (12), the variable nozzle comprises a series of  
substantially "C"-shaped sections, each having a first  
rounded end (20) and a second rounded end (21), each sec-  
15 tion of the series of sections also having the concavity  
facing upwards with respect to a base (90) and arranged  
one after another continuously, in the direction of an  
axis of the shaft (11) along a curved line (60), the at  
least second degree curved line (60) lies on a surface  
20 (70) having an axis orthogonal to the axis of the shaft  
(11) and also tilted with respect to the base (90) by an  
angle (80).